DIVINE HOPE NURSERY & PRIMARY SCHOOL

CANDIDATES' MOCK SERIES I

SCIENCE PAPER

DURATION: 2 HOURS 15 MINUTES

INDEX NUMBER

RANDOM NO.						PERSONAL NO.		

CANDIDATE'S NAME: _____

CANDIDATE'S SIGNATURE: _____

DISTRICT NO: _____

Read the following instructions carefully.

1. Do not write your school or district name anywhere on this paper.

2. This paper has two sections: A and B. Section A has 40 questions and section B has 15 questions. The paper has 10 printed pages altogether.

3. Answer all questions. All the answers for both sections A and B must be shown in the spaces provided.

4. All working must be done using a blue or black ball point pen or ink. Any work done in pencil will NOT be marked except drawings and diagrams.

5. Unnecessary changes in your work and handwriting that cannot easily be read may lead to loss of marks.

6. Do not fill anything in the table indicated: "For examiners' use only" and the boxes inside the question paper.

FOR EXAMINERS' USE ONLY

QN NO.	SCORES	EXR'S ID
1-10		
11-20		
21-30		
31-40		
41-43		
44-46		
47-49		
50-52		
53-55		
TOTAL		

Turn over

SECTION A (40 MARKS)

Questions 1 to 40 carry one mark each.

1. Why are viruses considered both living and non-living things?

   .....

2. State one function of platelets in human blood.

   .....

3. What name is given to the process through which green plants lose water vapour?

   .....

4. Mention one importance of earthworms in the soil.

   .....

5. Which gas is released during photosynthesis?

   .....

Below is a picture of two car tyres.

6. Which one of the two tyres will create more friction when in use?

   .....

7. State one reason why aluminium saucepans are commonly used for cooking.

   .....

8. Which type of teeth is absent in the milk set of teeth?

   .....

10. Why do farmers rotate crops?

    .....

11. Name the disease caused by lack of iodine in the diet.

    .....

12. State one importance of vaccination to dairy farmers.

    .....

13. Which component of blood carries oxygen around the body?

.....

14. Why are decomposers important in the environment?

.....

15. State one way HIV/AIDS can be prevented among the minors.

.....

16. Name the largest planet in the solar system.

.....

17. Why does a passenger fall forward when a moving vehicle stops suddenly?

.....

18. Which vitamin helps in proper clotting of blood?

.....

19. State one function of the sepals in a flower.

.....

20. What are the most important crops in crop rotation?

.....

21. Mention one example of a non-biodegradable material.

.....

Study the picture below and answer **No. 22** and **23**.

22. Which type of energy is possessed by the boy?

.....

23. State the force that causes the above occurrence.

.....

23. State one cause of dental caries.

.....

24. Why should cooked food be covered properly?

.....

25. Which organ removes excess water and salts from the body?

.....

27. Why is the ozone layer important to living things on earth?

.....

28. State one characteristic that makes you a mammal.

.....

29. Name the largest natural magnet?

.....

30. Why do objects appear bent in water?

.....

31. State one advantage of using solar energy.

.....

32. Which part of the ear detects head movement?

.....

33. Why should a cracked electrical cable not be used?

.....

34. Name one disease spread through contaminated water.

.....

35. The stomach produces hydrochloric acid during digestion. Explain why the stomach wall does not get digested by the acid.

.....

36. State one reason why a balanced diet is important.

.....

37. Which simple machine is used to raise a national flag?

.....

38. Name the darkest region of a shadow?

.....

39. Mention one importance of conserving wetlands.

.....

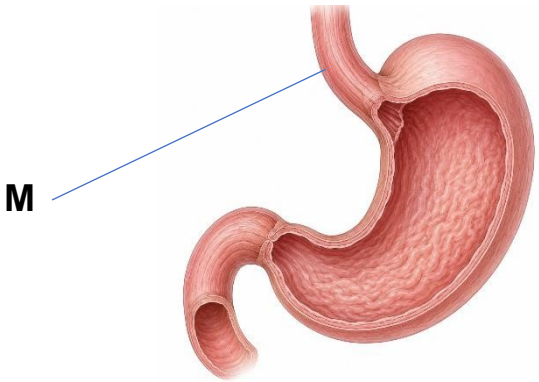
40. State one effect of deforestation on climate.

.....

SECTION B (60 MARKS)

Questions 41 to 55 carry four marks each.

41. The diagram below shows a body organ.



a) Name the body organ shown.

.....

b) State the two processes that take place in the above organ.

i) .....

ii) .....

c) Name the part labelled **M** in the diagram.

.....

42. a) What is pollination?

.....

.....

b) Mention any two agents of pollination.

i) .....

ii) .....

c) State one difference between self-pollination and cross-pollination.

.....

.....

43. a) Define friction.

.....

.....

b) State any two advantages of friction.

i) .....

ii) .....

c) State any one factor that influences the intensity of friction.

.....

44. a) What is a food chain?

.....

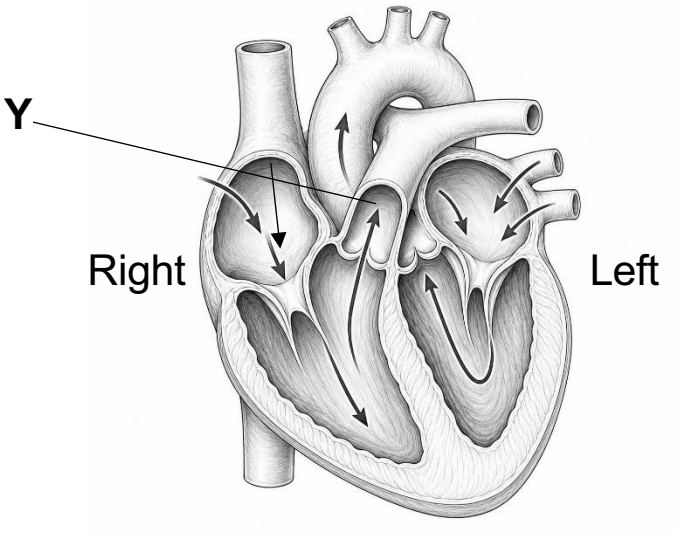
b) Construct a simple food chain using the following organisms:

Grass, hawk, snake, grasshopper, frog

c) Name the producer in the food chain above.

.....

45. The diagram below is of a human heart.



a) Name the organ that receives blood which goes through blood vessel **Y**.

.....

b) State the nature of blood that is pumped through the:

i) right side of the heart.....

ii) left side of the heart.....

c) Why is blood circulation important in the human body?

.....

46. a) What is an eclipse?

.....

.....

b) Differentiate between a solar eclipse and a lunar eclipse.

.....

.....

c) State one importance of the moon to human beings.

.....

47. a) Name any two methods of separating mixtures.

i) .....

ii) .....

b) Which method would you use to separate:

i) sand from water?.....

ii) salt from salty water?.....

48. a) What is respiration?

.....

.....

b) State two differences between aerobic and anaerobic respiration.

i) .....

ii) .....

c) Name one product of anaerobic respiration in muscles.

.....

49. a) Mention any two causes of environmental pollution.

i) .....

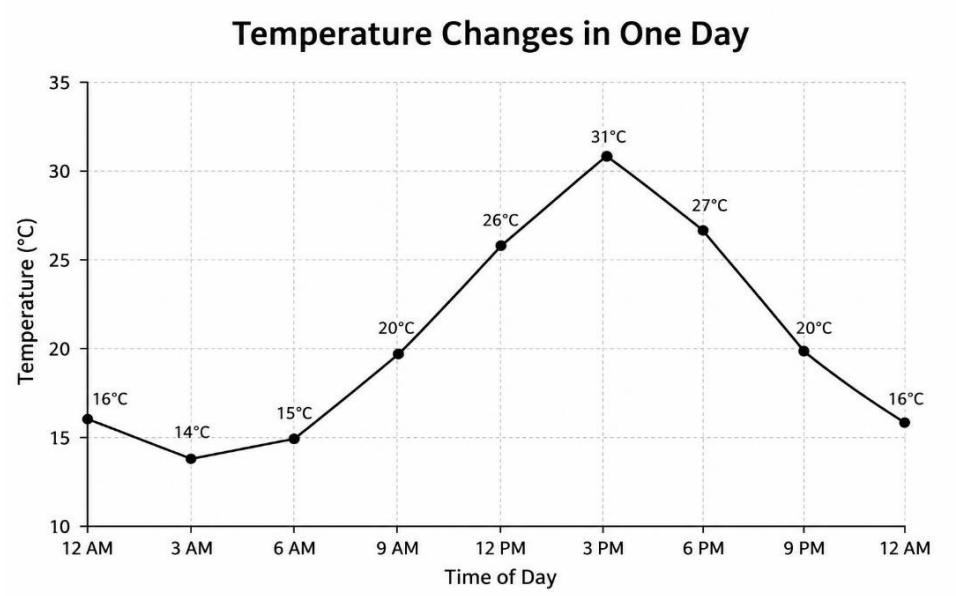
ii) .....

b) State any two effects of environmental pollution.

i) .....

ii) .....

50. The graph below shows temperature changes during one day.



a) Change the highest temperature recorded from **°C** to **°F**.

b) State one factor that affects temperature changes during the day.

.....

c) Why is temperature important in weather study?

.....

51. a) Define fertilisation.

.....

.....

b) State two changes that take place in girls during adolescence.

i) .....

ii) .....

c) Mention one importance of guidance and counselling to adolescents.

.....

52. a) Name any two waterborne diseases.

i) .....

ii) .....

b) State two ways of making water safe for drinking.

i) .....

ii) .....

c) Why is clean water important to the body?

.....

53. a) Define force.

.....

b) Mention two effects of force.

i) .....

ii) .....

c) State one use of a spring balance.

.....

54. a) What is adaptation?

.....

b) Mention any two adaptations of desert plants.

i) .....

ii) .....

c) Why do camels survive for long without water?

.....

55. a) State two causes of accidents at home.

i) .....

ii) .....

b) Mention two ways of preventing accidents during risky science experiments.

i) .....

ii) .....

c) Why is first aid important?

.....

END